Section 1 - Chemical Product and Company Identification

**SDS Name:** Basic Fuchsin, 1% in Ethanol  
**Catalog Numbers:** SO-1219  
**Company Identification:** ROWLEY BIOCHEMICAL  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923  
For information, call: 978-739-4883  
Emergency Number: 800-424-9300  
For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

**GHS Classifications**

**HEALTH HAZARDS**

H302-Acute Oral Toxicity: 4  
H332-Acute Inhalation toxicity: 4  
H315-Skin Corrosion/Skin Irritation: 2  
H319-Eye damage/Irritation: 2A  
H334-Respiratory Sensitization: 1B  
H317-Skin Dermal Sensitization: 1B  
H341-Germ Cell Mutagenicity: 2  
H351-Carcinogenicity: 2  
H361-Reproductive Toxicity: 2  
H371-Specific Target Organ Toxicity: 2

**PHYSICAL HAZARDS**

H225-Flammability: 2

**ENVIRONMETAL HAZARDS**

H400-Aquatic acute environmental Hazards: 1
Causes severe eye irritation.

Very toxic to aquatic life.

Highly flammable liquid and vapour.

Harmful if swallowed.
Harmful if inhaled.
Causes skin irritation.
May cause allergic skin reaction.

Chronic
Oral, Human – woman: May cause reproductive and fetal effects.
Prolonged exposure may cause liver, kidney, and heart damage.
Cancer suspect agent.

Precautionary Statement Prevention.

H302
P264 Wash thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P301 + P312 If swallowed, call a physician if you feel unwell.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
P330 Rinse mouth.

H332
P261 Avoid breathing fumes/mist/vapors.
P304 + P340 If inhaled, remove person to fresh air and keep comfortable for breathing.
1 Use only outdoors or in a well-ventilated area.
P312 Call a physician if you feel unwell.

H315
P280 Wear protective gloves, clothing, and eye and face protection.
P302 + P352 If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.
P332 + P313 If skin irritation occurs, get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
H319
P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes.
P337 + P313 If eye irritation persists, get medical advice/attention.
P285 In case of inadequate ventilation, wear respiratory protection.
P304+P341 IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311 if experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

H334
P261 Avoid breathing fumes/mist/vapors.
P285 In case of inadequate ventilation, wear respiratory protection.
P304+P341 IF INHALED: if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311 if experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

H317
P272 Contaminated work clothing should not be allowed out of the work place.
P333+P313 IF ON SKIN: Wash with plenty of soap and water.
P363 Wash contaminated clothing before reuse.

H341+H361
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P308 + P313 If exposed or concerned, get medical advice/attention.
P405 Store locked up.

H351
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P308 + P313 IF exposed or concerned: Get medical advice/attention.

H371
P260 Do not breathe fume/gas/mist/vapors.
P270 Do not eat, drink, or smoke when using this product.
P309+P311 IF exposed or if you feel unwell: Call a POISON CENTER o doctor/physician.
DANGER! **Flammable liquid and vapor.** Keep away from heat, flame and sparks.

**WARNING! Harmful if inhaled.** Do not breathe vapors; use with adequate ventilation. **Harmful if swallowed.** Contains methanol; not for internal or external use. **Causes skin irritation and severe eye irritation. May cause an allergic skin reaction.** Basic Fuchsin is a **CANCER SUSPECT AGENT!** Wear protective gloves, clothing and eye protection. **Chronic:** May cause reproductive and fetal effects. **Target Organs:** Kidneys, heart, central nervous system, liver.

### Section 3 - Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethanol (SD Alcohol)</td>
<td>100 v/v</td>
</tr>
<tr>
<td>569-61-9</td>
<td>Basic Fuchsin</td>
<td>1 %</td>
</tr>
</tbody>
</table>

### Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.

**Oral Exposure:** If Swallowing seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

### Section 5 - Fire Fighting Measures

**General Information:** Containers can build up pressure if exposed to heat and/or fire. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.
**Flash Point:** 16.6 deg C (61.88 deg F)
**Autoignition Temperature:** 363 deg C (685.40 deg F)
**Explosion Limits, Lower:** 3.3 vol %
**Upper:** 19.0 vol %
**NFPA Rating:** (estimated) Health: 2; Flammability: 3; Instability: 0

### Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s):**
Wear protective gear. Eliminates all sources of ignition.

**Methods for Cleaning up:** Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

### Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Store capped at room temperature. Keep away from incompatible materials. Protect from heat. Vapors heavier than air, may travel considerable distance and ignite or explode.

### Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>1000 ppm TWA</td>
<td>1000 ppm TWA; 1900 mg/m3 TWA</td>
<td>1000 ppm TWA; 1900 mg/m3 TWA</td>
</tr>
</tbody>
</table>

**OSHA Vacated PELs:** Ethanol: 1000 ppm TWA; 1900 mg/m3 TWA

**Personal Protective Equipment**

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.
Section 9 - Physical and Chemical Properties

**Physical State:** Liquid  
**Appearance:** Fuchsin  
**Odor:** Alcohol-like  
**pH:** N/A  
**Vapor Pressure:** 59.3 mm Hg @ 20 deg C  
**Vapor Density:** 1.59  
**Evaporation Rate:** N/A  
**Viscosity:** 1.200 cP @ 20 deg C  
**Boiling Point:** 78 deg C  
**Solubility:** Miscible.

Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.  
**Conditions to Avoid:** Incompatible materials, ignition sources, excess heat, oxidizers.  
**Incompatibilities with Other Materials:** Strong oxidizing agents, acids, alkali metals, ammonia, hydrazine, peroxides, sodium, acid anhydrides, calcium hypochlorite, chromyl chloride, nitrosyl perchlorate, bromine pentafluoride, perchloric acid, silver nitrate, mercuric nitrate, potassium-tert-butoxide, magnesium perchlorate, acid chlorides, platinum, uranium hexafluoride, silver oxide, iodine heptafluoride, acetyl bromide, disulfuryl difluoride, tetrachlorosilane + water, acetyl chloride, permanganic acid, ruthenium (VIII) oxide, uranyl perchlorate, potassium dioxide.  
**Hazardous Decomposition Products:** Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.  
**Hazardous Polymerization:** Will not occur.

Section 11 - Toxicological Information

**RTECS#:**  
CAS# 64-17-5: KQ6300000  
**LD50/LC50:**  
CAS# 64-17-5:  
- Draize test, rabbit, eye: 500 mg Severe;  
- Draize test, rabbit, eye: 500 mg/24H Mild;  
- Draize test, rabbit, skin: 20 mg/24H Moderate;  
- Inhalation, mouse: LC50 = 39 gm/m3/4H;  
- Inhalation, rat: LC50 = 20000 ppm/10H;  
- Oral, mouse: LD50 = 3450 mg/kg;  
- Oral, rabbit: LD50 = 6300 mg/kg;  
- Oral, rat: LD50 = 7060 mg/kg;
Oral, rat: LD50 = 9000 mg/kg;<BR.  
**LC50 and LD 50 Not available for Basic Fuchsin.**

**Carcinogenicity:**
CAS# 64-17-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 569-61-9: Cancer suspect. IARC: Group 2B. (Possibly carcinogenic to humans.)

**Epidemiology:** Ethanol has been shown to produce fetotoxicity in the embryo or fetus of laboratory animals. Prenatal exposure to ethanol is associated with a distinct pattern of congenital malformations that have collectively been termed the "fetal alcohol syndrome". **Teratogenicity:** Oral, Human - woman: TDLo = 41 gm/kg (female 41 week(s) after conception) Effects on Newborn - Apgar score (human only) and Effects on Newborn - other neonatal measures or effects and Effects on Newborn - drug dependence. **Reproductive Effects:** Intrauterine, Human - woman: TDLo = 200 mg/kg (female 5 day(s) pre-mating) Fertility - female fertility index (e.g. # females pregnant per # sperm positive females; # females pregnant per # females mated). **Neurotoxicity:** No information available. **Mutagenicity:** DNA Inhibition: Human, Lymphocyte = 220 mmol/L.; Cytogenetic Analysis: Human, Lymphocyte = 1160 gm/L.; Cytogenetic Analysis: Human, Fibroblast = 12000 ppm; Cytogenetic Analysis: Human, Leukocyte = 1 pph/72H (Continuous). Sister Chromatid Exchange: Human, Lymphocyte = 500 ppm/72H (Continuous). **Other Studies:** Standard Draize Test (Skin, rabbit) = 20 mg/24H (Moderate) Standard Draize Test: Administration into the eye (rabbit) = 500 mg (Severe).
Section 14 – Transport Information

DOT
Proper shipping name: Alcohols, N.O.S.
UN1987
PG II
Hazard class 3 (flammable)

Section 15 - Regulatory Information

Canada Regulatory Information
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

California Prop 65
WARNING: Ethanol, is a chemical known to the state of California to cause developmental reproductive toxicity.
California No Significant Risk Level: None of the chemicals in this product are listed.
Basic Fuchsin is a CANCER SUSPECT AGENT!

European/International Regulations
European Labeling in Accordance with EC Directives

Hazard Symbols:
F

Risk Phrases:
R 11 Highly flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed
R36/38 Irritating to eyes and skin
R51 Toxic to aquatic organisms
R61 May cause harm to the unborn child

Safety Phrases:
S20/21 When using do not eat, drink or smoke
S2 Keep out of the reach of children
S 16 Keep away from sources of ignition - No smoking.
S 33 Take precautionary measures against static discharges.
S 7 Keep container tightly closed.
S 9 Keep container in a well-ventilated place

Section 16 - Additional Information

MSDS Creation Date: 12/13/12
Revision # 1/29/2014 YM co-sign RC

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Rowley Biochemical, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rowley Biochemical, Inc. has been advised of the possibility of such damages.